

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113058 A1

(51) International Patent Classification⁷: **B29C 70/46**,
70/20, 70/22, B32B 5/12, A61F 2/60

(21) International Application Number:
PCT/AU2003/000796

(22) International Filing Date: 25 June 2003 (25.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicants and

(72) Inventors: **EGAN, Joseph, Steven** [AU/AU]; 178 Avoca Drive, GREEN POINT, New South Wales 2251 (AU).
CHING-HENG, Wong [MY/SG]; Apartment Block 795, Woodlands Drive 72, 08-09, 730795 (SG).

(74) Agent: **FISHER ADAMS KELLY**; 13/10 Eagle Street, GPO BOX 1413, Brisbane, Queensland 4000 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

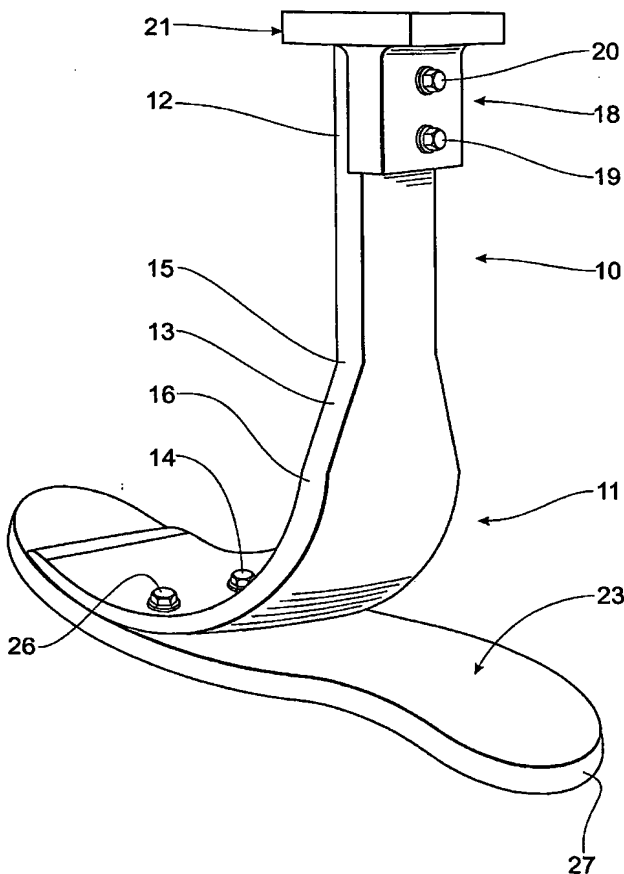
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF CONSTRUCTION OF MOULDED PRODUCTS



(57) Abstract: A method of construction of a moulded product which includes the steps of impregnating non-metallic fibres in epoxy resin whereby said impregnated fibres may be arranged to form a sheet of said fibres; cutting a plurality of pre-pregs from said sheet; forming successive layers of said pre-pregs so that said layers are arranged in stacked relationship (preferably formed of pre-pregs having fibres arranged in an intersecting orientation which alternate with pre-pregs having fibres arranged in a longitudinal and/or latitudinal orientation) in a mould cavity of a compression mould; compression moulding at elevated temperature; and removing the moulded product from the compression mould. There is also provided a moulded product per se as well as a moulded product formed by the method of construction. The moulded product is preferably a prosthetic device including a J-shaped pylon (11) and sole plate (23).